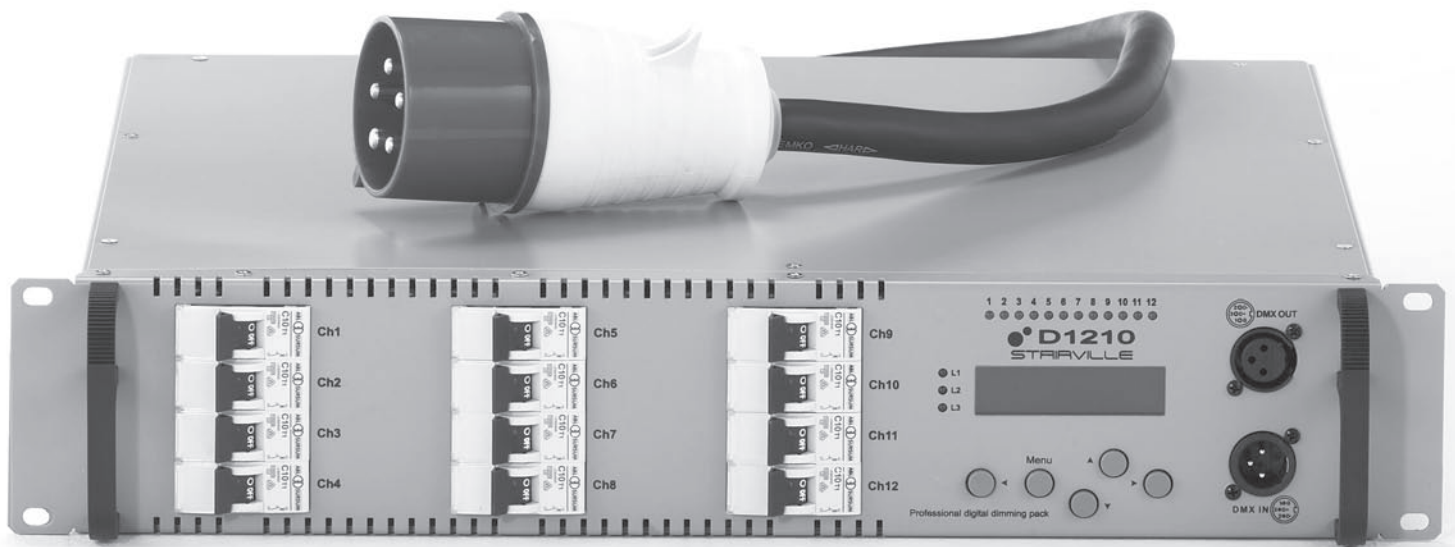


D1210

Owner's Manual

12 CHANNEL DIGITAL DIMMER PACK




STARVILLE

Notes on safety

For your own safety you must read through this chapter *at first completely!*



Risk of electrical shocks!

- Only connect the device to a mains power supply, that complies to the technical specifications given in this manual.
- Do not operate the device if the power cord or the mains plug are damaged.
- Never submerge the device in water. Wipe it with a slightly moistened cloth only.
- Do not expose the device to rain and never use it in a damp or wet environment. Indoor use only! Make sure that the power cord never becomes wet or moist during use.
- Under no circumstances may you open the device housing. Should you do so your safety would not be assured and the warranty will become void. There are no operational components whatsoever inside, only really high voltage that can give you a deadly shock!
- Do not place objects containing fluids, e.g. flower vases or beer bottles, on or near the device.
- Notice regarding disconnection from mains-power:
To completely disconnect the device from mains power, you must pull the plug from the power socket. For this reason the device should be placed in a position where unobstructed access to the power socket is assured at all times, so that in an emergency you will be able to immediately pull out the plug. To eliminate the risk of fire you have to completely disconnect the power plug from the power socket when the device is not going to be used.
- Always grasp the power cord by the plug. Do not pull on the cord itself and never touch the power cord with wet hands as this could result in a short circuit or an electrical shock. Do not place the device, speakers or anything else on the power cord and make sure that it does not become clamped. Never tie knots in the power cord and do not bind it together with other cables. Lay the power cord so that no one can step on or stumble over it. A damaged power cord can cause a fire or an electrical shock. Check the power cord from time to time. Should it become damaged contact our customer service department to have it replaced.
- Always operate the device only on a properly wired and correctly earthed socket (see specifications), never sever the power cord's earth wire. Otherwise a **LIFE THREATENING** situation exists!
- Never use this device in places, where it is subject to
 - > excessive vibrations and/or impacts,
 - > temperatures above 30°C / 100°F or below 5°C / 40°F,
 - > extreme low or high humidity (ideal humidity is between 35% and 80%).

Risk of fire!

- Never leave the device unattended during operation.
- Never cover the ventilation slots of the device while it is on. Do not place the device in locations that are subject to direct sunlight. If you do, it may overheat and become irreparably damaged.
- Never operate the dimmer pack in the vicinity of heat sources such as cookers, heating elements or other heat producing installations.
- Do not place open fire sources, such as candles, on the device.
- Before a storm and/or a thunderstorm with a risk of lightning, disconnect the device from the electrical power source.

Risk of personal injury!

- Keep children away from the power cord and the device. Children frequently underestimate the dangers of electrical devices.
- Provide a stable location for the device.
- Do not operate the device if it has sustained a fall or is damaged. Have the device checked or, if necessary, repaired by qualified technicians.

ATTENTION!

- Damages caused by the disregard of this user manual are not subject to warranty. Neither the manufacturer nor the importer will accept liability for these kind of damages or any resulting damages, defects, or problems. The electric connection must only be carried out by a qualified electrician! All electric and mechanical connections must comply with European safety norms.

Specifications

AC INPUT 230V AC, 50-60Hz, 1, 2 or 3 phases, max. 32A / phase
LOAD 12 channels, max. 10A / channel
Output connector 2 x Harting 16-pin
DMX Signal DMX 512 / 1990
DMX connectors input.....XLR 5-pin male
.....output ...XLR 5-pin female
Dimension: 19" 2U, 483 (L) x 90 (H) x 410 (D) mm
Weight 14.9 kg



Our products are subject to a process of continual further development. Therefore modifications to the technical features remain subject to change without further notice.

Disposal

Never throw the device into the regular household waste at the end of its useful life. This product is subject to the European Directive 2002/96/EC.



- Dispose of the device through an approved disposal centre or at your community waste facility.
- Observe the current existing regulations. In case of doubt contact your disposal facility.
- The packaging is certified via a dual system. Take all packaging materials to an environmentally friendly disposal facility in compliance with the local regulations.



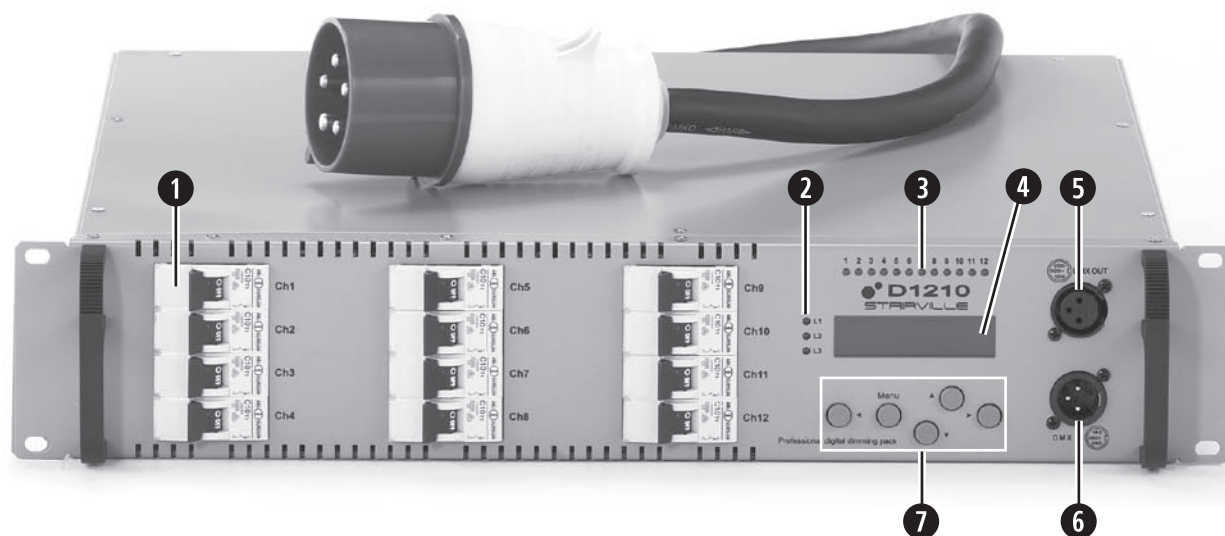
Maintenance and care

- Never submerge the device in water or any other liquid. Don't let any liquid get into the housing. This would damage the unit and cause a short circuit.
- Before cleaning the device you must disconnect it from the mains. Clean the surface of the device only with a slightly damp cloth. Never use petrol, solvents or any aggressive cleaners! These could damage the surface of the unit's housing!

Features

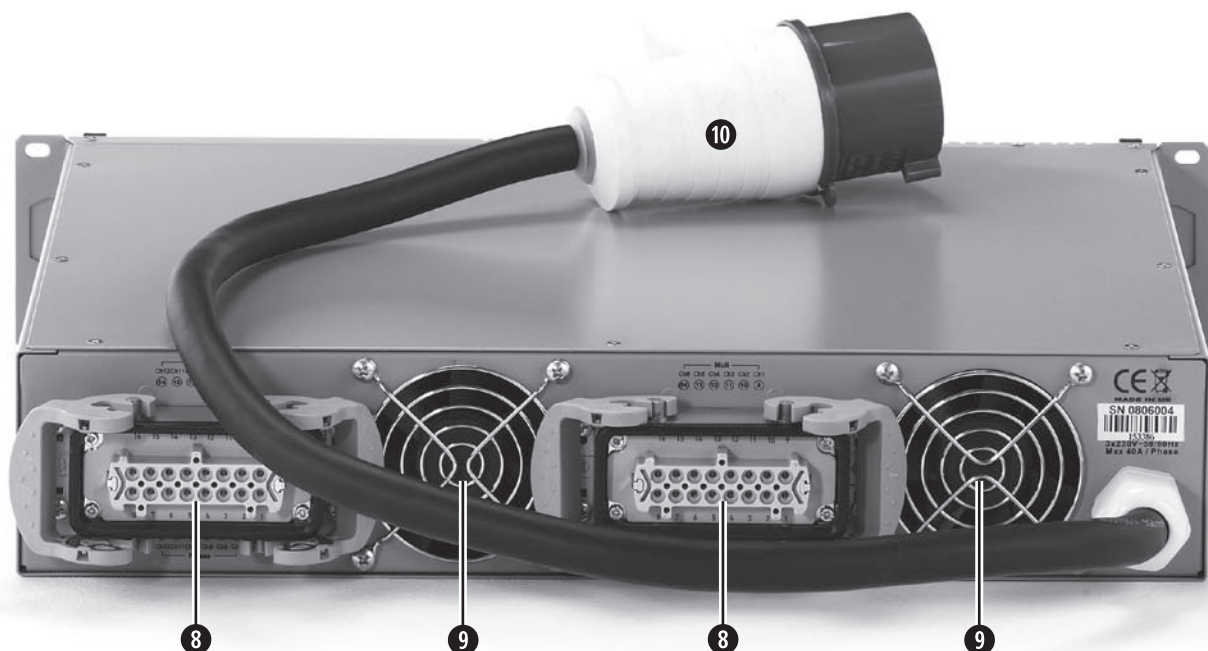
- ▶ Digital signal interface DMX512 (1990)
- ▶ Each channel have it's own DMX address
- ▶ Individual preheat on every channel (0-15%)
- ▶ Individual control curve on every channel (Switch/Linear/Sqrt)
- ▶ Adjustable voltage limit for every channel
- ▶ Auto frequency tracking 45-65 Hz
- ▶ Test mode
- ▶ LCD display
- ▶ Internal temperature displaying for each Phase module
- ▶ Variable fan speed corresponding to internal temperature for each phase module
- ▶ Overheat protection for each phase module

Front panel



- ❶ Circuit Breaker
- ❷ Phase LED indicator
- ❸ Channel LED indicator
- ❹ LCD Display
- ❺ DMX Signal output
- ❻ DMX Signal input
- ❼ Control Keys

Rear panel



- ❽ AC Power Output
- ❾ Cooling Fan
- ❿ Main AC Power Input

Installation / Power up

Plug the 12 lamps into the Harting sockets (8) as is shown on the back panel. Insert the DMX cable in the corresponding Inputs (6). Unwrap the power cord (10) and plug into a 3x230V socket capable of delivering 32A per phase. D1210 have three sections (phases) named L1, L2, L3.

They can be powered in several modes:

- each section powered by its individual phase;
- one section powered by one phase and the other two powered by another phase;
- all sections powered by a single phase.

Note!

It is recommended to power up all three phases (do not leave any dimmer section unpowered even if you don't use it).

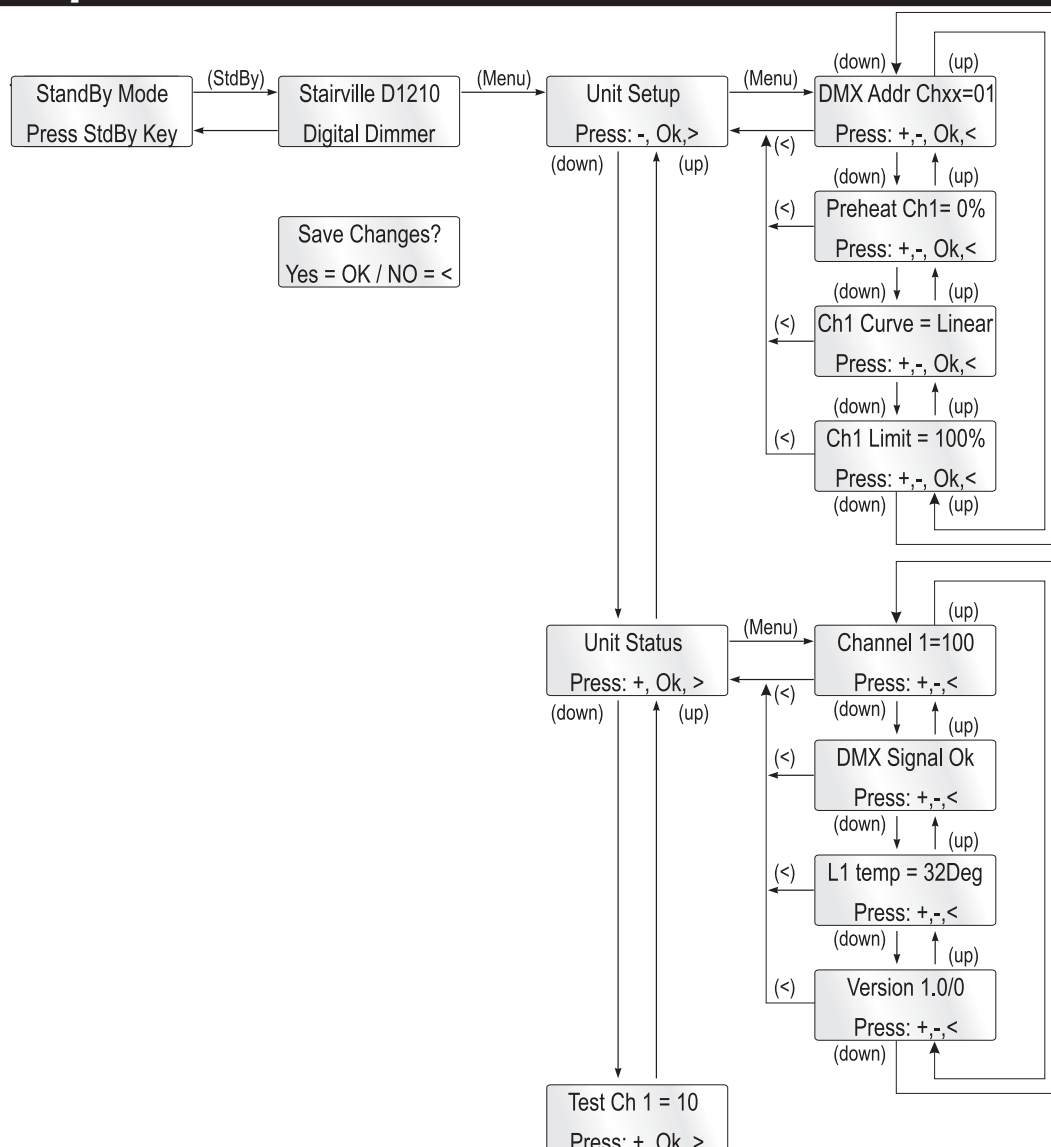
Once you have powered the unit the phase indicator LED's will light and the LCD will display after a second: "STAIRVILLE D1210 / DIGITAL DIMMER". This means that D1210 is ready to be used. The green LED's on the front panel will show the intensity for channels.

Turn on the Circuit Breakers (❶) for the channels you want to use and the lamps will light up.

Note!

It is recommended to set up the unit (see next pages) before you turn on the Circuit Breakers (❶).

Unit Setup



Preheat setup

D1210 have individual channel preheat values which can be set in this way:

Enter "Unit Setup"->"Preheat Ch1= 0" and press (Menu) key.

The channel number will start to blink. Select the desired channel pressing (Up) / (Down) keys and then press (>). Remember that you can toggle between channel no and channel value using (<) and (>) keys. The preheat value for selected channel will blink. Change the settings by pressing (Up) / (Down) keys. If you want to change another channel preheat value press (<) key and change the channel number. When you have set all preheats to desired values, press (Menu) and the "Save Changes?" view will appear on LCD. To save changes press (Menu) key, to quit without saving the changes press (<) key.

Note!

The max preheat value is 50, and in the on/off mode the preheat is shut off.

DMX Address setup

D1210 have individual channel DMX addresses. To set these addresses enter "Unit Setup"->"Ch 1 DMX Addr= 01" and press (Menu) key. The channel number will start to blink. Select the desired channel by pressing (Up) / (Down) keys and then press (>). Change the settings pressing (Up) / (Down) keys. If you want to change another channel address value press (<) key and change the channel number. Press (Menu) key and the "Save Changes" view will appear on LCD. To save changes press (Menu) key, to quit without saving the changes press (<) key.

Note!

Changing the DMX address for Ch1 will modify all addresses. If you want to modify the address for each channel first set Ch1 address and after that set the others addresses!

Control curve setup

D1210 have 5 control curves for each channel:

- Linear / Sqrt / Curve1 (dimmer mode)
- On/off (switch mode) - The channel will be on (full) when its value passes over 64. And the channel will be turned off when its value drops below 32.

Note!

The individual channel settings must be set before turning on the circuit breaker. Some non-dimming lamps may be damaged if they are used in dimmer mode.

To select the control curve enter Unit Setup->Ch Curve and press (Menu) key. The channel number will start to blink. Select the desired channel by pressing (Up) / (Down) keys and then press (>), the curve for selected channel will blink. Change the settings by pressing (Up) / (Down) keys. If you want to change another channel preheat value, press (<) key and change the channel number. When you have set all channel curves, press (Menu) and the "Save Changes?" view will appear on LCD. To save changes press (Menu) key, to quit without saving the changes, press (<) key.

Test mode

You can test channels (set individual channel value) using Test Mode.

Enter "Test Ch 1= 0" and press (Menu) key. The channel number will start to blink. Select the desired channel by pressing (Up) / (Down) keys and then press (>). Remember that you can toggle between channel no and channel value using (<) and (>) keys. The channel value will start to blink. Change the settings by pressing (Up) / (Down) keys. If you want to change another channel value, press (<) key and change the channel number.

When you want to exit, press (Menu) and the “Save Changes?” view will appear on LCD. To save changes press (Menu) key, to quit without saving the changes press (<) key.

Limiter setup

D1210 have individual voltage channel limit values for prolonging bulb life. This can be set in this way:

Enter “Unit Setup”->”Limit Ch1=255” and press (Menu) key.

The channel number will start to blink. Select the desired channel pressing (Up) / (Down) keys and then press (>). Remember that you can toggle between channel no and channel value using (<) and (>) keys. The Limiter value for selected channel will blink. Change the settings by pressing (Up) / (Down) keys. If you want to change another channel limiter value, press (<) key and change the channel number. When you have set all limits to desired values, press (Menu) and the “Save Changes?” view will appear on LCD. To save changes press (Menu) key, to quit without saving the changes press (<) key.

Note!

The minimum limiter value is 200 and in the on/off mode the limiter is shut off.

Unit Status

Display channels values

You can see the value of each channel of the D1210 entering “Unit Status”-> “Channel 1= 68” and press (Menu) key. The channel number will start to blink. To change the current channel press (Up) or (Down) keys. To leave this menu press (Menu).

DMX status

You can check DMX status entering “Unit Status”->”DMX Signal”

If the DMX reception is OK the LCD will display “DMX signal OK”. If there’s something wrong with DMX signal the LCD will display “No DMX signal”.

Note!

Changing the status of DMX reception will be displayed by blinking for 3 seconds (e.g. when you turn on /off the DMX console).

Displaying unit temperature

You can view the D1210 internal temperature for each phase module entering “Unit Status”->”Unit Temp=34Deg”. When the temperature exceeds 45° the corresponding cooling fan will start. The fan speed will increase with internal temperature until 65°, when the fan speed will be max. If the temperature of any of the 3 modules reach 95°, then the D1210 enters overheat protection until the temperature for that module drops below 80°. In this situation the channels corresponding to the overheated module will be shut down and the LCD will display blinking “L..... Overheat / Unit Overheated”.

Note!

To avoid overheating do not cover the cooling fans and ensure adequate ventilation!

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